

Based Material Line Up

S1000-2M/S1000-2MB`

1. CORE (C-STAGE)

Thickness		ply-up	RC (%)	Dk				Df			
mm	mil			1 GHz	3 GHz	5 GHz	10 GHz	1 GHz	3 GHz	5 GHz	10 GHz
0.050	2.00	1x1067	65	4.11	4.04	3.99	3.94	0.019	0.020	0.021	0.021
0.075	3.00	1x1080	64	4.14	4.07	4.02	3.97	0.019	0.02	0.021	0.021
0.100	4.00	1X3313	57	4.29	4.24	4.19	4.14	0.018	0.019	0.02	0.021
0.100	4.00	2X106	71	3.94	3.85	3.79	3.75	0.021	0.022	0.023	0.024
0.120	4.70	1x2116	55	4.34	4.29	4.25	4.2	0.017	0.018	0.019	0.02
0.120	4.70	2X106	76	3.74	3.62	3.56	3.52	0.022	0.023	0.024	0.025
0.127	5.00	1X2116	57	4.29	4.24	4.19	4.14	0.018	0.019	0.02	0.021
0.127	5.00	2X106	77	3.85	3.75	3.7	3.66	0.022	0.023	0.024	0.025
0.150	6.00	1X1506	46	4.56	4.55	4.5	4.45	0.016	0.016	0.018	0.019
0.150	6.00	2X1080	64	4.14	4.07	4.02	3.97	0.019	0.02	0.021	0.021
0.180	7.10	1x7628	43	4.64	4.63	4.59	4.54	0.015	0.016	0.017	0.018
0.180	7.10	2X3313	53	4.39	4.36	4.31	4.26	0.018	0.019	0.020	0.021
0.200	8.00	1x7628	47	4.54	4.52	4.47	4.42	0.016	0.017	0.018	0.019
0.200	8.00	2X3313	57	4.29	4.24	4.19	4.14	0.018	0.019	0.02	0.021
0.254	10.00	2X2116	57	4.29	4.24	4.19	4.14	0.018	0.019	0.02	0.021
0.280	11.00	2116+1080+2116	53	4.39	4.36	4.31	4.26	0.018	0.019	0.020	0.021
0.300	12.00	2X1506	46	4.56	4.55	4.5	4.45	0.016	0.016	0.018	0.019
0.330	13.00	1080+7628+1080	52	4.41	4.39	4.34	4.28	0.018	0.019	0.02	0.021
0.360	14.00	2X7628	44	4.62	4.61	4.56	4.51	0.015	0.016	0.017	0.018

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0.380	15.00	2X7628	45	4.59	4.58	4.53	4.48	0.015	0.016	0.017	0.018
0.600	23.60	3X7628	45	4.59	4.58	4.53	4.48	0.015	0.016	0.017	0.018
1.000	39.40	5X7628	45	4.59	4.58	4.53	4.48	0.015	0.016	0.017	0.018
1.200	47.00	6X7628	45	4.59	4.58	4.53	4.48	0.015	0.016	0.017	0.018

2. PREPREG (B-STAGE)

Glass style	RC (%) Nominal	Thickness		Dk				Df			
		mm	mil	1GHz	3GHz	5GHz	10GHz	1 GHz	3 GHz	5 GHz	10 GHz
7628	44	0.187	7.36	4.62	4.61	4.56	4.51	0.015	0.016	0.017	0.018
7628	46	0.196	7.72	4.56	4.55	4.5	4.45	0.016	0.016	0.018	0.019
7628	50	0.216	8.5	4.46	4.44	4.39	4.34	0.017	0.018	0.019	0.02
7628	52	0.227	8.94	4.41	4.39	4.34	4.28	0.018	0.019	0.02	0.021
1506	45	0.150	5.91	4.59	4.58	4.53	4.48	0.015	0.016	0.017	0.018
2116	51	0.108	4.25	4.44	4.42	4.37	4.31	0.018	0.019	0.02	0.021
2116	53	0.114	4.49	4.39	4.36	4.31	4.26	0.018	0.019	0.02	0.021
2116	55	0.120	4.72	4.34	4.29	4.25	4.2	0.017	0.018	0.019	0.02
2116	57	0.127	5.00	4.29	4.24	4.19	4.14	0.018	0.019	0.02	0.021
2313	56	0.096	3.78	4.31	4.27	4.22	4.17	0.018	0.019	0.02	0.021
2313	58	0.103	4.06	4.27	4.22	4.17	4.12	0.018	0.019	0.02	0.021
2313	60	0.110	4.33	4.23	4.18	4.13	4.08	0.018	0.019	0.02	0.021
3313	56	0.096	3.78	4.31	4.27	4.22	4.17	0.018	0.019	0.02	0.021
3313	58	0.103	4.06	4.27	4.22	4.17	4.12	0.018	0.019	0.02	0.021
3313	60	0.110	4.33	4.23	4.18	4.13	4.08	0.018	0.019	0.02	0.021

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1078/1080	64	0.072	2.83	4.14	4.07	4.02	3.97	0.019	0.02	0.021	0.021
1078/1080	69	0.086	3.39	3.99	3.9	3.85	3.8	0.02	0.021	0.022	0.023
1078/1080	71	0.091	3.58	3.94	3.85	3.79	3.75	0.021	0.022	0.023	0.024
1067	73	0.065	2.56	3.9	3.8	3.75	3.71	0.021	0.022	0.023	0.024
106	70	0.047	1.85	3.97	3.87	3.83	3.78	0.02	0.021	0.022	0.023
106	72	0.050	1.97	3.92	3.82	3.76	3.72	0.021	0.022	0.023	0.024
106	74	0.053	2.09	3.89	3.79	3.74	3.7	0.021	0.022	0.023	0.024
106	77	0.060	2.36	3.85	3.75	3.7	3.66	0.022	0.023	0.024	0.025
1027	65	0.032	1.26	4.11	4.04	3.99	3.94	0.019	0.02	0.021	0.021
1027	78	0.054	1.81	3.84	3.74	3.69	3.65	0.022	0.023	0.024	0.025
1037	72	0.047	1.85	3.92	3.82	3.76	3.72	0.021	0.022	0.023	0.024
1037	74	0.050	1.97	3.89	3.79	3.74	3.7	0.021	0.022	0.023	0.024
1037	76	0.055	2.17	3.86	3.76	3.71	3.67	0.022	0.023	0.024	0.025
1037	78	0.060	2.36	3.84	3.74	3.69	3.65	0.022	0.023	0.024	0.025

3. REMARK

- 1) Test by SPDR method.
- 2) The data above show actual values and are not guaranteed, for your reference only.
- 3) Last update: March, 2023.